

Slide One: AHIC 2008 “Draft Detailed” Use Cases Stakeholder Overview

Slide two:

Agenda

- Use Case Development Process Overview
- Feedback Received from 2008 Prototypes
- 2008 Draft Detailed Use Cases Overview
 - Consultations & Transfers of Care
 - Remote Monitoring
 - Personalized Healthcare
 - Patient – Provider Secure Messaging
 - Immunizations & Response Management
 - Public Health Case Reporting
- Feedback Process
 - 2008 Draft Detailed Feedback Due February, 15th 2008

Slide Three:

AHIC Priorities and Use Cases

Use Cases

- Use cases are descriptions of events that detail what a system (or systems) need to do to achieve a specific mission or stakeholder goals
- Use cases convey how individuals and organizations (actors) interact with the involved systems and strive to provide enough detail and context for follow-up activities to occur
- Usually, the follow-up from a use case is work that leads to the development or implementation of a specific software system

Slide Four:

AHIC Priorities and Use Cases

AHIC Use Cases

- ONC has been using high-level use cases that are not about the development of a specific software system, but are about the needs of many systems, stakeholder organizations, and individuals
- The use cases are based on the priorities expressed by the American Health Information Community working groups and describe involved stakeholders, information flows, issues, and systems needs that apply to the multiple organizations participating in these areas
- The use cases strive to provide enough detail and context for standards harmonization, architecture specification, certification consideration, and detailed policy discussions to advance the national HIT agenda
- These high-level use cases focus, to a significant degree, on the exchange of information between organizations and systems rather than the internal activities of a particular organization or system

Slide Five:

This is a graphical representation of mini-documents to show the process of how the AHIC priorities are developed into the use cases. The documents shown are just a graphical representation and no content is provided about these documents in this presentation.

Slide Six:

- Prototype Use Case
 - High-level overview of use case direction
 - Does not document all events and actions
 - Opportunity for feedback before detailed use case
- Detailed Use Case
 - Fully describes events and activities from different perspectives
 - Adds alternative flows of events
 - Based on feedback from prototype use case
 - More detail regarding relevant data sets
 - Includes information flows

Slide Seven:

Components of Draft Detailed Use Cases

- Preface
- Introduction (*Including Scope*)
- Stakeholders
- Issues & Obstacles
- Perspectives
- Scenarios
- Information Exchanges
- Data Set Considerations
- Appendices
 - Glossary
 - Detailed Data Set Considerations

Slide Eight:

This is a graphical representation showing that we are currently in Round 3 of Use Case Development. 2006 Use Cases were Round 1, 2007 Use Cases were Round 2, 2008 Use Cases are Round 3, and 2009 and Beyond are going to be Round 4.

Slide Nine:

Prototype Feedback.

Embryonic nature of the prototype use case was intended to encourage more formative feedback early in the development process.

- Received Responses from 57 organizations/Individuals
- Consisting of 126 feedback documents
- Containing over 1150 feedback items

Slide Ten:

- Consultations & Transfers of Care
- Remote Monitoring
- Personalized Healthcare
- Patient – Provider Secure Messaging
- Immunizations & Response Management
- Public Health Case Reporting

Slide Eleven:

Consultations and Transfers of Care

Draft Detailed Use Case - *Overview*

- Roles and information flows to support consultations
 - Initiate a request for consultation by a provider or patient
 - Communicate relevant clinical findings back to the requestor, patient, and authorized recipients
- Roles and information flows to support transfers of care
 - Exchange of core information needed to accomplish a transition in care between care settings such as emergent, acute, long-term care, homecare between the sending and receiving organizations
 - Exchange of core information for transfer of care between organizations is the focus; information exchange needs for Intra-organizations transfers may be similar and included in the use case
 - Communicate transfer of care information back to the patient and authorized recipients

Slide Twelve:

- Prototype Feedback has been analyzed and incorporated as appropriate into the Draft Detailed Use Case document
- Information exchange diagrams have been included
- Events and Actions are described in detail
- Datasets are described with Detailed Dataset Considerations included in Appendix B; The core dataset is still being developed and is expected to involve a coordinated process involving the various efforts in progress in the industry
- Access to additional information not included within the core consultation or transfer dataset is identified as a contextual information flow, which is not a primary focus of this use case

Slide Thirteen:

This is an example of a scenario flow diagram which can be found in the actual use cases. This image is just a graphical example, the actual content is located in the Use Case Documents.

Slide Fourteen:

This is an example of an Events & Actions table which describes the scenario flows in more detail. This image is just a graphical example, the actual content is located in the Use Case Documents.

Slide Fifteen:

Remote Monitoring

Draft Detailed Use Case - *Overview*

- Roles and information flows to support communication of data from home monitoring devices to EHRs and PHRs
 - Transmit measurement data to EHRs and PHRs
 - Review of monitoring information by clinicians and care coordinators
 - Communicate monitoring-related information from care coordinators to clinicians (e.g. assessment information, patient coordination details, summary data)

Slide Sixteen:

- Prototype Feedback has been analyzed and incorporated as appropriate into the Draft Detailed Use Case document
- Information exchange diagram is included
- Events and Actions are described in detail
- Datasets describing data types, measurement metadata, alerts, and assessment information
- The three original candidate workflows have been combined into a single scenario:
 - Remote Monitoring

Slide Seventeen:

Personalized Healthcare

Draft Detailed Use Case - *Overview*

- Roles and information flows to support Personalized Healthcare
 - Clinician intake of patient's past medical history, current medical status, and family health history
 - Clinician assessment and selection of appropriate genetic/genomic test
 - Exchange between clinicians and medical testing laboratories
 - Integration of personal and family health history and genetic/genomic testing results into electronic health records
 - Reporting to authorized clinicians and consumers

Slide Eighteen:

- Prototype Feedback has been analyzed and incorporated as appropriate into the Draft Detailed Use Case document
- The three original candidate workflows have been combined into two scenarios:
 - Clinical Assessment.
 - Genetic Testing, Reporting, and Clinical Management.
- Information exchange diagrams are included

- Events and Actions are described in detail
- Datasets are described, including Family Health History
 - “Family Health History Multi-Stakeholder Data Requirements Summary” has been included as a companion document
- At the suggestion of the Personalized Healthcare Workgroup, Newborn Screening and Secondary Use of Genetic Information has been deferred to future use cases

Slide Nineteen:

Patient – Provider Secure Messaging

Draft Detailed Use Case - *Overview*

- Roles and information flows to support communications of secure information between patients and their providers
 - Secure structured or unstructured patient messages to providers asking health-related questions or providing health information without requiring both parties to be available at the same time
 - Clinician responses to those communications and the ability to initiate communications as necessary to promote patient health
 - Clinician use of reminders within secure messages to support patient health and wellness

Slide twenty:

- Prototype Feedback has been analyzed and incorporated as appropriate into the Draft Detailed Use Case document
- Information exchange diagrams are included
- Events and Actions are described in detail
- On-line, live communications are excluded from the scope of this use case as are communications between providers
- The three original candidate workflows have been combined into two:
 - Patient-Initiated Communications
 - Clinician-Initiated Communications
- Datasets are described, including 10 sample message types that may be included in secure messaging

Slide Twenty-One:

Immunization and Response Management

Draft Detailed Use Case - *Overview*

- Roles and information flows to support routine and emergency immunization
 - Reporting to immunization registries
 - Exchange between registries
 - Patient status queries of immunization registries
 - Integration of immunization schedules into electronic health records or registries
 - Information awareness for location status of immunization supply
 - Apportionment and distribution

Slide Twenty-Two:

- Prototype Feedback has been analyzed and incorporated as appropriate into the Draft Detailed Use Case document
- Information exchange diagrams included
- Events and Actions are described in detail
- The two original candidate workflows have been refined to focus on routine care activities which can also support non-routine or emergency situations
 - Vaccine and Drug Administration and Reporting
 - Vaccine and Drug Inventory Management
- Dataset needs are described
- Reporting of vaccine adverse events is described and linked to the Public Health Case Reporting Use Case
- Clinical care for public health cases is also described and linked to the Public Health Case Reporting Use Case

Slide Twenty-three:

Public Health Case Reporting

Draft Detailed Use Case - Overview

- Roles and information flows to support public health reporting, investigation, and information sharing
 - Incorporating pre-determined criteria into EHRs and LISs
 - Electronic reporting of notifiable conditions/diseases, public health cases, and adverse events
 - Exchange of information between clinicians and public health including feedback on submitted reports, focused population health information, or general population health information.

Slide Twenty-four:

- Prototype Feedback has been analyzed and incorporated as appropriate into the Draft Detailed Use Case document
- Information exchange diagram included
- Events and Actions are described in detail
- The two original candidate workflows have been combined into a single scenario:
 - Reporting, Investigation, and Information Sharing
- Dataset needs are described, including those addressing:
 - Pre determined criteria
 - Reporting requirements
 - Submitted Reports
 - Focused Population Health Information
 - General Population Health Information
- Processes and examples specific to adverse events have been included in the document

- Reporting of vaccine adverse events is described and linked to the Immunizations & Response Management Use Case
- Clinical care for public health cases is also described and linked to the Immunizations & Response Management Use Case

Slide Twenty-five:

Please send your feedback no later than close of business, Friday, February 15th, 2008.

- Public Health Case Reporting
 - URL = <http://www.hhs.gov/healthit/usecases/phcr.html>
 - Feedback address = usecase1@hhs.gov
- Consultation & Transfers of Care
 - URL = <http://www.hhs.gov/healthit/usecases/reftx.html>
 - Feedback address = usecase2@hhs.gov
- Personalized Healthcare
 - URL = <http://www.hhs.gov/healthit/usecases/phc.html>
 - Feedback address = usecase3@hhs.gov

Slide Twenty-six:

Please send your feedback no later than close of business, Friday, February 15th, 2008.

- Immunizations & Response Management
 - URL = <http://www.hhs.gov/healthit/usecases/respmgmt.html>
 - Feedback address = usecase4@hhs.gov
- Remote Monitoring
 - URL = <http://www.hhs.gov/healthit/usecases/remon.html>
 - Feedback address = usecase5@hhs.gov
- Patient – Provider Secure Messaging
 - URL = <http://www.hhs.gov/healthit/usecases/remcon.html>
 - Feedback address = usecase6@hhs.gov